

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference NdP 88306	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2004/008247	International filing date (day/month/year) 20/07/2004	(Earliest) Priority Date (day/month/year) 22/07/2003
Applicant  POLITECNICO DI MILANO		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box II).

3. ☒ Unity of invention is lacking (see Box III).

4. With regard to the title,

☒

the text is approved as submitted by the applicant.

☐

the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒

the text is approved as submitted by the applicant.

☐

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. 2

☒

as suggested by the applicant.

☐

as selected by this Authority, because the applicant failed to suggest a figure.

☐

as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G01L5/16 F16C11/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01L F16C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 41 01 732 A (KERNFORSCHUNGSZENTRUM KARLSRUHE GMBH) 23 July 1992 (1992-07-23)	1,7,8
Y	abstract	5,15-17, 21
	page 2, line 44 - page 4, line 18 figures 1-3	
	-----	
Y	DE 40 18 558 A (SCHÖNHERR MICHAEL PROF DIPL-ING) 12 December 1991 (1991-12-12)	5,15-17, 21
	abstract	
	page 2, line 24 - page 3, line 42 figures 1-3	
	-----	
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

26 October 2004

Date of mailing of the international search report

23.12.04

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Barthélemy, M

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FR 2 708 101 A (CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE) 27 January 1995 (1995-01-27) abstract	1-4, 7-12,14
	page 1, line 1 - line 9 page 2, line 28 - line 35 page 3, line 38 - line 40 page 4, line 17 - line 20 page 6, line 31 - page 7, line 16 figures 1,4,5	
X	FR 2 545 606 A (HISPANO-SUIZA) 9 November 1984 (1984-11-09) abstract	1-4, 7-12,14
	page 2, line 8 - line 28 page 3, line 19 - line 27 page 4, line 35 - page 5, line 19 figures 2,3	
X	FR 2 696 002 A (JEULIN SA) 25 March 1994 (1994-03-25) abstract	1-4, 7-12,14
	page 2, line 14 - page 3, line 20 page 4, line 1 - line 14 page 5, line 7 - page 6, line 29 page 7, line 34 - page 8, line 4 page 9, line 23 - page 10, line 28 figures 1-3,5	
X	PREUSSER T, POLANSKY L: "External 6-component wind tunnel balances for aerospace simulation facilities" INTERNATIONAL CONGRESS ON INSTRUMENTATION IN AEROSPACE SIMULATION FACILITIES, GOTTINGEN, SEPT. 18 - 21, 1989, NEW YORK, IEEE, US, 18 September 1989 (1989-09-18), pages 488-495, XP010087296	1,7,8
A	page 488, column 1, paragraph 2 page 489, column 1, paragraphs 1,2 page 489, column 2, paragraph 1 page 490, column 2, paragraph 1 figures 2,8,11,12	5,15
X	DATABASE WPI Section EI, Week 9328 Derwent Publications Ltd., London, GB; Class S02, AN 1993-225479 XP002301037 & SU 1 747 961 A (SPORT ARTICLES RES CONSTR TECHN INST) 15 July 1992 (1992-07-15)	1,2,7,8
A	abstract; figure 1	5,14,15

-/--

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 216 467 A (COLSTON) 5 August 1980 (1980-08-05) column 1, line 59 - line 64 column 2, line 3 - line 43 figures 2,3	5,15,17
A	----- US 5 029 483 A (GAUTSCHI ET AL) 9 July 1991 (1991-07-09)  abstract column 1, line 22 - line 25 column 4, line 4 - line 30 column 5, line 1 - line 6 column 5, line 36 - line 38 figures 3,5,6,7a,7b -----	1-3,8, 10-12, 16,17,24

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/EP2004/008247**Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-25

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-25

Measuring forces and moments acting on a body  
---

2. claims: 26-27

Constructional details of an elastic Hooke's joint  
---

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 4101732	A	23-07-1992	DE 4101732 A1	23-07-1992
DE 4018558	A	12-12-1991	DE 4018558 A1	12-12-1991
			DE 9007523 U1	10-09-1992
FR 2708101	A	27-01-1995	FR 2708101 A1	27-01-1995
			WO 9501556 A1	12-01-1995
FR 2545606	A	09-11-1984	FR 2545606 A1	09-11-1984
			DE 3462378 D1	19-03-1987
			EP 0132163 A1	23-01-1985
			JP 1801047 C	12-11-1993
			JP 5011255 B	15-02-1993
			JP 60052731 A	26-03-1985
			US 4550617 A	05-11-1985
FR 2696002	A	25-03-1994	FR 2696002 A1	25-03-1994
SU 1747961	A	15-07-1992	SU 1747961 A1	15-07-1992
US 4216467	A	05-08-1980	NONE	
US 5029483	A	09-07-1991	EP 0360923 A1	04-04-1990
			AT 84613 T	15-01-1993
			DE 3877573 D1	25-02-1993
			JP 2095229 A	06-04-1990